

## Specifications

Model	SmartDrop L (NS1000)	SmartDrop X (NS1010)	SmartDrop XF (NS1020)
Display	7-inch touch screen	7-inch touch screen	7-inch touch screen
Minimum sample size	1.0µl - 2.0µl	0.5µl - 2.0µl	0.5µl - 2.0µl
Path length	0.5mm	0.2mm, 1.0mm	0.05mm, 0.2mm, 1.0mm
Light source	UV LED	Xenon Flash Lamp	Xenon Flash Lamp
Detector	UV Silicon Photocell	2048 Element Linear Silicon CCD Array	2048 Element Linear Silicon CCD Array
Wavelength	260, 280, & 600nm	200 - 800nm (1nm steps)	200 - 800nm (1nm steps)
Absorbance range	0.2 - 50 A (10mm equivalent)	0.04 - 90 A (10mm equivalent)	0.04 - 300 A (10mm equivalent)
Absorbance precision	0.005 A	0.003 A	0.003 A
Lower limit of detection	dsDNA: 10ng/µl	dsDNA: 2ng/µl; BSA: 0.1mg/ml	dsDNA: 2ng/µl; BSA: 0.1mg/ml
Upper limit of detection	dsDNA: 2,500ng/µl	dsDNA: 4,500ng/µl; BSA: 135mg/ml	dsDNA: 15,000ng/µl; BSA: 360mg/ml
Detection time	< 6 seconds	< 5 seconds	< 6 seconds
Communication ports	USB for data export	USB for data export	USB for data export
Voltage input	DC 24V, 2A	DC 24V, 2A	DC 24V, 2A
Power	25W	25W	25W
Dimensions (WxDxH)	20.8 x 8.0 x 18.6 cm / 8.2 x 11.0 x 7.3 in.	20.8 x 28.0 x 18.6 cm / 8.2 x 11.0 x 7.3 in.	20.8 x 28.0 x 18.6 cm / 8.2 x 11.0 x 7.3 in.
Weight	3.6 kg / 7.9 lbs	2.8 kg / 6.2 lbs	3.6 kg / 7.9 lbs
<b>Cuvette OD600 detection</b>			
Absorbance range	0.0 - 4.0 A	0.0 - 4.0 A	0.0 - 4.0 A
Absorbance stability	[0,3] ≤ 0.5%, [3,4] ≤ 2%	[0,3] ≤ 0.5%, [3,4] ≤ 2%	[0,3] ≤ 0.5%, [3,4] ≤ 2%
Absorbance repeatability	[0,3] ≤ 0.5%, [3,4] ≤ 2%	[0,3] ≤ 0.5%, [3,4] ≤ 2%	[0,3] ≤ 0.5%, [3,4] ≤ 2%
Absorbance precision	[0,2] ≤ 0.005 A, [2,3] ≤ 1%, [3,4] ≤ 2%	[0,2] ≤ 0.005 A, [2,3] ≤ 1%, [3,4] ≤ 2%	[0,2] ≤ 0.005 A, [2,3] ≤ 1%, [3,4] ≤ 2%
<b>Fluorescence detection</b>			
Excitation/Emission**	N/A	N/A	460 ± 20nm / 525-570nm
Sensitivity	N/A	N/A	dsDNA: 0.5pg/µl
Linearity	N/A	N/A	R <sup>2</sup> ≥ 0.995
Repeatability	N/A	N/A	≤ 1.5%
Stability	N/A	N/A	≤ 1.5%